

CLAIMS

What is claimed is:

1. In a server, a method of data session handoff, said method comprising:

5 receiving data from a data source;

transmitting at least a portion of said data to an electronic device located in a first location;

receiving notification that said electronic device is moving toward a second location served by a second server;

10 transmitting a first message to said second server notifying said second server that said electronic device is moving toward said second location;

receiving a second message from said second server that said second server is prepared to communicate with said electronic device; and

15 said server stopping transmission of said data.

2. The method as recited in Claim 1 wherein said server and said second server are transcoder devices.

20 3. The method as recited in Claim 1 wherein said data source is a content server.

4. The method as recited in Claim 1 wherein said data source is a content distribution network comprised of a plurality of edge servers.

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5. The method as recited in Claim 1 wherein said data is streaming media data.

30 6. The method as recited in Claim 1 wherein said electronic device is communicatively coupled to said server by a wireless connection.

7. The method as recited in Claim 1 further comprising, prior to said receiving said second message:

said second server transmitting a third message to said data source notifying said data source to transmit at least a portion of said data to said second server; and

said data source transmitting at least a portion of said data to said second server.

8. The method as recited in Claim 1 further comprising, prior to said server stopping transmission of said data, said second server transmitting at least a portion of said data to said electronic device.

9. The method as recited in Claim 1 wherein said data is user datagram protocol data.

10. The method as recited in Claim 1 wherein said first message and said second message are transmission control protocol messages.

11. A server comprising:

a bus;

a computer-readable memory coupled to said bus; and

a processor coupled to said bus, said processor for executing a method of data session handoff, said method comprising:

receiving data from a data source;

transmitting at least a portion of said data to an electronic device located in a first location;

receiving notification that said electronic device is moving toward a second location served by a second server;

transmitting a first message to said second server notifying said second server that said electronic device is moving toward said second location;

receiving a second message from said second server that
said second server is prepared to communicate with said electronic
device; and

said server stopping transmission of said data.

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12. The server as recited in Claim 11 wherein said server and
said second server are transcoder devices.

10 13. The server as recited in Claim 11 wherein said data source is
a content server.

14. The server as recited in Claim 11 wherein said data source is
a content distribution network comprised of a plurality of edge servers.

15 15. The server as recited in Claim 11 wherein said data is
streaming media data.

20 16. The server as recited in Claim 11 wherein said electronic
device is communicatively coupled to said server by a wireless connection.

17. The server as recited in Claim 11 wherein said method further
comprises, prior to said receiving said second message:

25 said second server transmitting a third message to said data source
notifying said data source to transmit at least a portion of said data to said
second server; and

said data source transmitting at least a portion of said data to said
second server.

30 18. The server as recited in Claim 11 wherein said method further
comprises, prior to said server stopping transmission of said data, said

second server transmitting at least a portion of said data to said electronic device.

19. The server as recited in Claim 11 wherein said data is user
5 datagram protocol data.

20. The server as recited in Claim 11 wherein said first message
and said second message are transmission control protocol messages.

10 21. A computer-readable medium having computer-readable
program code embodied therein for causing a computer system to perform
a method of data session handoff, said method comprising:

receiving data from a data source;

transmitting at least a portion of said data to an electronic device
15 located in a first location;

receiving notification that said electronic device is moving toward a
second location served by a second server;

transmitting a first message to said second server notifying said
second server that said electronic device is moving toward said second
20 location;

receiving a second message from said second server that said
second server is prepared to communicate with said electronic device; and
said server stopping transmission of said data.

25 22. The computer-readable medium as recited in Claim 21
wherein said server and said second server are transcoder devices.

23. The computer-readable medium as recited in Claim 21
wherein said data source is a content server.

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24. The computer-readable medium as recited in Claim 21 wherein said data source is a content distribution network comprised of a plurality of edge servers.

5 25. The computer-readable medium as recited in Claim 21 wherein said data is streaming media data.

26. The computer-readable medium as recited in Claim 21 wherein said electronic device is communicatively coupled to said server by
10 a wireless connection.

27. The computer-readable medium as recited in Claim 21 further comprising, prior to said receiving said second message:
said second server transmitting a third message to said data source
15 notifying said data source to transmit at least a portion of said data to said second server; and
said data source transmitting at least a portion of said data to said second server.

28. The computer-readable medium as recited in Claim 21 further comprising, prior to said server stopping transmission of said data, said second server transmitting at least a portion of said data to said electronic device.

29. The computer-readable medium as recited in Claim 21 wherein said data is user datagram protocol data.

30. The computer-readable medium as recited in Claim 21 wherein said first message and said second message are transmission
30 control protocol messages.

31. In a server, a method of data session handoff, said method comprising:

receiving a first message from a second server notifying said server that an electronic device is moving toward a location served by said server;

5 transmitting a second message to a data source for transmitting data, said second message notifying said data source to transmit at least a portion of said data to said server;

receiving at least a portion of said data from said data source;

10 transmitting a third message to said second server that said server is prepared to communicate with said electronic device; and

transmitting at least a portion of said data to said electronic device.

32. The method as recited in Claim 31 wherein said server and said second server are transcoder devices.

15 33. The method as recited in Claim 31 wherein said data source is a content server.

20 34. The method as recited in Claim 31 wherein said data source is a content distribution network comprised of a plurality of edge servers.

35. The method as recited in Claim 31 wherein said data is streaming media data.

25 36. The method as recited in Claim 31 wherein said electronic device is communicatively coupled to said server by a wireless connection.

37. The method as recited in Claim 31 further comprising, prior to said receiving said first message:

30 said second server receiving at least a portion said data from said data source;

said second server transmitting at least a portion of said data to said electronic device;

said second server receiving notification that said electronic device is moving toward said location; and

5 said second server transmitting said first message to said server notifying said server that said electronic device is moving toward said location.

10 38. The method as recited in Claim 31 further comprising, prior to said transmitting at least a portion of said data:

said second server receiving said third message from said server; and

said second server stopping transmission of said data to said electronic device.

15 39. The method as recited in Claim 31 wherein said data is user datagram protocol data.

20 40. The method as recited in Claim 31 wherein said first message and said second message are transmission control protocol messages.

25 41. A server comprising:
a bus;
a computer-readable memory coupled to said bus; and
a processor coupled to said bus, said processor for executing a method of data session handoff, said method comprising:
receiving a first message from a second server notifying said server that an electronic device is moving toward a location served by said server;

transmitting a second message to a data source for
transmitting data, said second message notifying said data source to
transmit at least a portion of said data to said server;

receiving at least a portion of said data from said data source;

5 transmitting a third message to said second server that said
server is prepared to communicate with said electronic device; and

transmitting at least a portion of said data to said electronic
device.

10 42. The server as recited in Claim 41 wherein said server and
said second server are transcoder devices.

43. The server as recited in Claim 41 wherein said data source is
a content server.

15 44. The server as recited in Claim 41 wherein said data source is
a content distribution network comprised of a plurality of edge servers.

20 45. The server as recited in Claim 41 wherein said data is
streaming media data.

46. The server as recited in Claim 41 wherein said electronic
device is communicatively coupled to said server by a wireless connection.

25 47. The server as recited in Claim 41 wherein said method further
comprises, prior to said receiving said first message:

said second server receiving at least a portion said data from said
data source;

30 said second server transmitting at least a portion of said data to said
electronic device;

said second server receiving notification that said electronic device is moving toward said location; and

said second server transmitting said first message to said server notifying said server that said electronic device is moving toward said
5 location.

48. The server as recited in Claim 41 wherein said method further comprises, prior to said transmitting at least a portion of said data:

said second server receiving said third message from said server;
10 and
said second server stopping transmission of said data to said electronic device.

49. The server as recited in Claim 41 wherein said data is user
15 datagram protocol data.

50. The server as recited in Claim 41 wherein said first message and said second message are transmission control protocol messages.

20 51. A computer-readable medium having computer-readable program code embodied therein for causing a computer system to perform a method of data session handoff, said method comprising:

receiving a first message from a second server notifying said server that an electronic device is moving toward a location served by said server;
25 transmitting a second message to a data source for transmitting data, said second message notifying said data source to transmit at least a portion of said data to said server;

receiving at least a portion of said data from said data source;
transmitting a third message to said second server that said server
30 is prepared to communicate with said electronic device; and
transmitting at least a portion of said data to said electronic device.

52. The computer-readable medium as recited in Claim 51 wherein said server and said second server are transcoder devices.

5 53. The computer-readable medium as recited in Claim 51 wherein said data source is a content server.

10 54. The computer-readable medium as recited in Claim 51 wherein said data source is a content distribution network comprised of a plurality of edge servers.

55. The computer-readable medium as recited in Claim 51 wherein said data is streaming media data.

15 56. The computer-readable medium as recited in Claim 51 wherein said electronic device is communicatively coupled to said server by a wireless connection.

20 57. The computer-readable medium as recited in Claim 51 further comprising, prior to said receiving said first message:

said second server receiving at least a portion said data from said data source;

said second server transmitting at least a portion of said data to said electronic device;

25 said second server receiving notification that said electronic device is moving toward said location; and

said second server transmitting said first message to said server notifying said server that said electronic device is moving toward said location.

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58. The computer-readable medium as recited in Claim 51 further comprising, prior to said transmitting at least a portion of said data:

said second server receiving said third message from said server;
and

5 said second server stopping transmission of said data to said electronic device.

59. The computer-readable medium as recited in Claim 51 wherein said data is user datagram protocol data.

10 60. The computer-readable medium as recited in Claim 51 wherein said first message and said second message are transmission control protocol messages.

15 61. A system of hand-off of a data session comprising:
a first server configured to transmit at least a portion of data received from a data source to an electronic device located in a first location;
a second server configured to transmit at least a portion of said data received from said data source to said electronic device when said
20 electronic device is located in a second location;
wherein said first server notifies said second server when said electronic device is moving toward said second location.

25 62. A system as recited in Claim 61 wherein said first server and said second server are transcoder devices.

63. The system as recited in Claim 61 wherein said data source is a content server.

30 64. The system as recited in Claim 61 wherein said data source is a content distribution network comprised of a plurality of edge servers.

65. The system as recited in Claim 61 wherein said plurality of data portions is streaming media data.

- 5 66. The system as recited in Claim 61 wherein said electronic device is communicatively coupled to said first server and said second server by a wireless connection.

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